

ABSTRACT OF THE DISCLOSURE

A differential charge pump includes a transient reducing circuit that provides multiple switching current paths to reduce transients caused by the charge transfer as the charge pump is switched. The differential charge pump includes separate current sources in the transient
5 reducing circuit that are switchably coupled to the non-active current source in the charge pump. In one embodiment, each current sources include a static current source and a variable current source that is controlled by a common mode feedback circuit. The variable current source may produce a current with less magnitude than the current produced by the static current source.